Hourval Moles of Vervou Baily Jun 22 - July 22, 1927, Minusota to Meroda T Origon Su notes on bots ad bot cover

1927

VTB.

Journal notes - Verron Baily, June 22. Left Mineapolis 7:40 PM for Oriaba. Jun 23. Arrived Smoba 7:40 AM. Up to Numerusea. Meverela. Ju 24 - acrived Winnenneen 11:55 IM. I went to Hotel Hembolet. Tune 25. Yot woil + worked an superts and account and letters. Være 26 - to Hagen in evening and But & Fallon by 10 PM. June 27 - Out to bot cave in edge of valley 10 miles & W. of Fallow where we found lots of Afretions
which we will a few antropous ralledus Wreeding in cart.

Fired wito our colorny and becaught Lown two Mutropous each courying small James clinging to the nipples. The young of our worr apparently but a day old. wale and Semale, blind, bareless, with wings wor like feet than wings. The thurst with book of four singers only partly woobed. The claws were well developed The State of the claws were well developed The State of the short of europed and The bat used there skillfully in clarging of Is nother. Witho the worth was well armed with muste teth like fine - short of booked for clariques. Each was firmly attended to a wide, plat supple that gave it a worthful of get the immele list quito and it chang so firmly That I was affraired of pulling off its hard to get The last one leave from its dead wother the next day - It clong with tell of all its hooked claws at once its body in line with the wothers so when she hung head down

To did the young one. I sewoved it want day vel placed it on another live female Wha's young had been killed by The stat Her young were twice as large at probably a week old with slightly better teeth of upe stit just begring to open. They also were male o female, both savid for spremus, skin & skull4, Su catalogue. When the small young was placed as the wast of the other bat it grobbed a wouthful of hair and classed his with tooked classes and in a moment none let go and formel The rupply and grobbed it evently. The old but began to object as soon as she full The William on her or tried to push it away with her wing but earlest vot, to she unehed down at took its head in her wouth and foreably torrist house from the nie ple and pushed it away. It squaked al later in skining it

Tooth mades on an side of its pead at in the las on The other side. The knew it was not her of intentionally injured it to make it have her nipple. The bat nipples are wishe at flat for The whole width of a wide wouthed young of to give a quater Chinging ad carrying eurface. after having all night in a North dack in an outside open soom where the temperatury was chilly the young but was cold and partially tospid in The woing but not so marly taspid as the old but in the saw sack. It was not too helphas to use its claws in having on or slowly getting a new bold and if its teeth tad been set on a nipple it would have been perfectly a spe if the nother tool awaleured and flours away before it warmed up. However its temperature would defend on here and if both became toopid together partoty both would warm up smultanish

The Metrionus mexicanos were for ners numerous Than the autropass and obout a dozen were killed at the saw a tot That prought down two of the larger spiews. Some 50 or more were captured in a net as They flow out of the subsect = the roof of the case of we estimated 500 or more that left the cave a little later as it got darker. Those capturel were all females, each & containing one large empryo That would probably tove been borne in a week or 10 days. 3 Spreums were saved and Thursembys wire preserved in altolol. On entering The cours we would easily locate The but colonies by The constant aquesting fear several crocked in The rocks overheast. They seemed to be crowding and quarreling for second or bust places Is it way have been a quarrel between The hos openies. In a sade they seemed to get along together all right.

Fallow, getting come early supplies that we could not find ebsembere. June 29. Fixled up the Obuscolit touring car for a camp trip and got supplies of our outfit ready for starting tourseen June 30 - Lift Fallon 9:20 UM for Winnenneea and arrived There at 4 PM. about 150 miles, but 60 of The way rough and slow.
Camped near the Humboldt River about
4 miles buyond Winnenneed on the ME Descrit Road. Mosquitous bad. Caught nothing - the traps.

July 1. Left Winnemmer in noming, heading with up the North Fork Annibelet Valley about 20 miles settlen over a low divide or saddle of down into the driven kins rally and of day the eastern edge to ME Dermit was The Oregon him. The ralley has lots of Emphis al broad grainly bottoms but the rawshes are gundly located on the swall clear cold wountein sturms Coming down from the side slopes, ware from the last slope out of the considuable wantam lange meluded in The Santa Rosa todan Mating fourt. We erastedfully a dozen of these fine eraks and at Robel Cruk drove of to the old ranger stations at the tood The campon for brush of walked a will atwo up to Canyon, hunting for woodeling at comies . Formels signs of wither but probably ded not go high every The peales am above timberlies and have big trule they guildres, worthy popular trichocasts and apparently aspen and wantain watogung higher up. The My willy stopes are worthy Jagebush and Bolsewersbeys southfrom In I wopfed then with a proved full of hansihers och a varrow out of Carodian gour. No pines a junifers were neognized on the object.

West of Lum Kivil is a high lattopped platian called The Que River Range which is Two high for Soveran and not high everyle for Canadian or many snowbanks. I wasped I as kansition with the broad Sangran driver hir vally between the two extending 20 miles with of Wil Derint with Origin but cut of fram the Barren Valley Barren Reached ME Dermit, 85 miles north of Winnerween about 4 PM & continued on north east toward Rove for some 30 miles, over Me first ridge al Lower auto Jueleans Crick and comped before washing The highest running in pure sorgebrush heuseties Found big grandsquissels commen about carry that seem like armotes but arenot. also lots of the gray C.m. cours ad got spremmes of both. Oroseaptes, airphispya verreluses 8 brevers sparreus are comme.

July z - Collisted two of another big Jellow growdsquint very like degans, all Three opicies on the same vidge wear emp and practically together.
Cellieties 2 spicies of rattitus values and several ligarde, m Mapped The life gover from the top of a high bestle was The sum I where the Steen Mis, all snowy of high stood of nost conspieurs of Quinn River barren altord and The awysher valleys lay Continued on down & Rowe in the Owyhie and camped for The night. above the bridge a couple of wiles . This is a low bot valley, all upper Saran with lava flows overdel badland lacustrius déposits. gathered a lotof bourd of some large wanned like a huffels but larger from a white came of butte & mules book pour Rome about 20 rods worth 9the road

Found no good topping greened at our Campas The rully is alkaling of onested but there is good water in the Buryhous Kives cel wany issigned alfolfa eauches. Shup seem to be the primeited industry col bay is raised & wents or lawf them on. a littly bailey or wheat is raused for the lorses. Grans is good our the cermination Judkars at Kattleswehr essels and lots To shup a cattle. Plants of Duplue Valley. artinsia trobutata abu Sarcapatus vermentalus u

atriples confestipling, Runner L Open Opentia was Goderd Cr. on sandy soil Micotiana Mentgelia Sink of Whitehouse Cr. July 4+5. artinisia Trifutata Wradynia z Chrysothamos Z Julirryia atriples cantelyolies Sareobotus Tupinus pusillus Cliones lutia Orygopsis

July3 - Went 30 mils east to Jardentally and got supplies. Then returned about 5 miles al Comped at The reservoir on Jardan river above the Cow Cruk lake vally in The midst of quant lava rock plains covered with ragibinsts. Country all Upper Sovoran with a good representation of listemsiaspineseus, grayia, Eurotia, Intradymia, Chrysothamus, Ribes auremen sed ceremen, Lepargyrea vol Mrs narrow bafed gray willow. Low lava caus on all sides al buttle Comes over the lava fields. Connerge edge of hausition & Someran with were tops clear sorgebrush of warm lokes and vulluft mounty Severan.

July 17. West to Rowe and then up Brockers Oriek and vour low slopes to Shiep Bruk al antilops Cruk of them over the west divide to a great player at abot seems to be the sink of White horse Creek. Turned back 4 miles of camped at edge of a bare und flat apparently 5 × 7 milis. with hig slavel duties around the edge. Set traps in the sawd dunes all out on This saudy valley is pur upper work as shown by plants ad annuals. July5- Caught Preodipus, Perograthus, Mierodipodolis, Organorys peromyseus samiensis al Citables walls. Saw Entalmas pietus ont signs of Motowa probably desettorium and our set of old Thomorpy hills. Coyotes a ladgers abou. Jacksophits when. Continued of to Whitelors Rauch about 10 miles and campied a boll mile bujoud on The Denis Road just west of the Crule at set traps botti ways, out an the disest west al book in the ineadows.

The Whiteborse randi is typeral of The old Time randus, big oil sambling with good buildings, larrols at puners They eause borses al cattle at bay worthy wild notive grasses, nye grans set Johnson grass but no alfalfa or other ceopes. There is obuidance of water in a large truck al vary irregalin ditelus carry it over neadaos while grass grows by wort arand The eargers is lots of sultgass. Big partures næke vinter range for stæk Thenas lots of willows, bullberries, at tall sagebrush but ve thinky in sight. The starsonding valleys and hipper Sarran but The meadows about are probably housely Shotony Stables aregones of emplet one on higussy billows but mollis is all over the ralley. Jack white, Conjotes of tradgers abuildant. Thomsends hills all over meadows.

July le Caught 2 Thournys tourseed: Neotona Cruerca v M. diseitorium nevadinisis, l'esodépeus Rublii, Omjetony l. Julijinos , Rusnipers Enverensis, Methis untamis. Jade rothits Comme, Corjotes & boolgus comme. Our hobest trade sien. Continued on Durio Rad but out of Willow Cruk Two for and had to him hande. tound a large leavest askin, alles Al wo large level willows on Willow G. Several boldsings. Crassed over low divide of Transitivi for send went down to Trant Coul and theres weres south wold along Villey at south & Dunio. god gas rout rysul- at suve træli north about 5 miles d'eauspellan Chan cold stoward out of southers well of Steen Mts Sums & hove so ename so we called it Climates Cruck from the abundance of Climates July J. Caught ruly Persograthus - Thetaps hur I toped for Microdopodops. Came about 35 incles worth to andrews when me got gasoling ad a little grub ad went on. to The north end of the valley, or about secured In north wed where it began to go down toward The north but kept on the Rusins Stage wood over the nathern arm of the Steen Utt. to what was probably Mule, Smith, andrews of their back south 25 miles to Danverd. Came 100 miles from avelus. The wood was needly very good but our big grade with probably 1000 feet sist over the tigsidge. To The ME alward Valley seems Continuous down to The Ekull Springs country and lower Malhers River Walley but we did not go for evough to be sure. It is certainly at low and Sorrossen. The figurage is brondly Transition with northy artinisia arbuseals, Jumperus occidentalis and along water causes willows al Populus anglustifolia. Mode rany Corrections to zone und. Campied in weadow it Deanond, Margillas bad

Much survan Fluidth. Cutes high about a pands of the long want bully from Jun July to Family to Hadis to tally from Jun Lake to tally fam. In side toward whithous Playa; and a low gap about connecting with the big audiens Playa.

July 8. Stood up the Coescomongo Cruk
od comped at end of road obset wiels
from Diamond. about Browns Shupemeds.
Transition your opicus ame down the Congre,
Populus trumbiles, almus, Salex, Carmes,
Climates and thus trust plants slong
the coldwater crule.

July 10. Back to Diamend and over to the Blitzen Kever, Then up The valley bujord Bliliger and The P. Rauch and camped in the original a mily buyand the last ranch and overlooking the whole lungth of the valley. Chimbied the high ridge to the west-overlooking The Callow Valley A worde some good carrielians & the life Zone way of Oregon. Both The Blitzen of Cotlow vallup an upper Sommen while wort of the ridges between are Transition. The common jumipur seems to be all occidentalis and whamly Transition all around the Steen Mits. of to the west. no jumpers were found east of the stren W. none of the Monospiewa group anywhee The Stem Mountain Jone wap chulsup orry will. The great extent of marsh alswamp al bottom land included in The Kinger of Blitzen valleys is a susprise to me, burg hudrids of square miles of rich, will watered land, world it sullaing valuable grazing, hay or crops. The wormous tule swamps are especially valuable winter range for called of evoryour quantities of my our cost for winter feed.

Eventually vast areas of There valles will be cultivated in alfalfa and grains as there is ample water supply for extensive is regations but the old idea of stock range on of open winter grazing still dominates the bountry. & great variety of hoper Soveran eraps, fruits of rightables can be raised of Comfortable bornes will take The place of base ranches ad Flock conals. Water can be pumped for irrigating wany pieces of land not easily brought under diteliand must of the water of the vallys is pure normlain water. At present no crops or trees are raised at some of the older ramelus and in a few places a little alfaffa, barly wheater upe for tay. In gardins ar voted potatoes, orions, litture, peas ad in our gardin a little corn.

July 11, Drove down the Dittem Pally to the Malhur Valley al acrass The Marrows al to Bierus, 75 miles, got mail al camped by the Silvies River a mile routh Upper Soman Jone all The way with abundance of characteristic spices of plants, wannels, birds of entitles. The water is high - Malheur Lake and Valley Grass at erops are big at the evorous valley begins to book perspeases again. Vely 12 Drove to Crawe and and eastweld Walheur Lake, Saw Bursan at Voltage and herved that the water is coming both and is 2 feet deep in the ald bed of the lake. Still low but apparently caring of. Camped at the Marrows, or about a mule 5 W of town was a rocky posit cal set 64 traps for Mierochpodops. Touch lots of Tracks. in wellow sailed sagebrush country, wow an wedy grand than on the sandy sail.

July 13 - Cought only one Microdypodops No dozens of Them Tramped all around my traps and a few ate some bail. They seems not to can per solled outs as the Victor wouss hops do rot opring easily evorights estell any mice. Dugart om Miero but be socaped. fourd several of their boles. Caught 4 Purches Collected plants and drove down to Harvey July ad found it with consederable water along the NW side. The quality part brown dry. Back & Burns adout to Experient Ration Smiles east of Busos, Whise Opel Stallwell is in charge del down splundid work. Just starting pump on new will today & irrigate 80 acres. li 25 horsepour peups Throws 2000 gallous a munte - Will love report mady by fall. lipply for it to fardine at Down. Calif. ist the Ogl. Gloge at Cowalls, Oryon. Returned to Birus al camped & words ups

speemens,

MI - Shattuck songs the climate of the Malhun Valley is not adapted to corn or any of the levels clopes on account of frasly nights during every worth of summer but that over well irrigated areas there is much less past, owing with heat relimins warst air at that at slightly elivated localities there is his dawage by part. the prainfall of the valley is a prection over I molus but in The hills west of Rusus about 17 mehrs, only 10 miles away. The crop adaptations of this quat uland agrienthing area, Tobe, are only In the beginning of experimentation but will eventually be solvied by just well work as the experiment station is doing. Walfas, Canadian field peas, Simplants and grains are the primiting elopes now with morning yields from obuilance of good Aure montain water primped up arts very rich alluveal sail. July 14 - Called on Prof. Huderson, State Botavist and Mr. Fellows at Burns al did. vot get off milit 9 all. Brown worth To Campon City and west to Daywilly al the John Day Valley. Method the life gares and woode warry corrections in the rap. found hausilion four peactically continues from 10 riveles north of Burns to John Day and in the bollow of the John Day vally all along. The west north side of the John Day Vally with an open southerly expanses seems to be pretty seers Sovoran and wany of the heurch tops al side slopes on the south sede of the valley but the maist all often warshy botterulands are cold del Kave much Papulus Thiolocaypa, almos, Betula formiolis, and big bravel arthows. Good crops of grain of alfalfa or lower polatois of some corn are raised al we saw eigs cherries at wany ordness will loaded with apples.

July 15. Left Daywills at 6 all altole the some! west to fineville, a very pour wood to Mitchel of them a fine graded of awardley Luckery rood over the Ochoco Mits of Love to Principle Soon left the Sonoran valley of the John Day of came apover high hansebin gone rielges, nottly que, with scattered surpews recidetis and sagebrush but all beam with swalldry annal grasses colweids. The Witnisia Carpely arbureula. The fellow ping thinks of the bright ridge of wormtains to the south a little about us od occasionally a gellow pine od to the worl. a few dry grains farms on the platerus ed sheep sauches in The cruck valleys when there is grans for Vay. Wort 7 mils bryow-Allitchel we struck up over The insulains through a brosol bett of splindid Pinns penderata frest, at higher up on The Alors found a deuse growth of townsach, douglas sprues, balsons and along the throws asken of alches.

Crossed the low western end of the Ochoco Rauge at 5298 fut cel should Call the upper 1000 part of this Cavadran zone ou strep cald slopes. To the South of east the range runs unch higher with wany patelies of mow ar eold slopes man the top and I have nopped a Caundina fore strips along the creat or cold slopes. Down the range on the west we wind Through mules and wills of beautiful open gellew pure woods to the poot man the big reservois where the fempers Jugin at continue aeros, the open valley to Preverille al begovet & Bevel. Prinevilly al Reduced au in The opperedge of Sonorau zone but the edge of Eavoran and Travillies is not very will abfined. The varying basebook al rapid air drawage mexing The two interminably. The Privevilly valley naw but a large water suffely for extrusive issigation and the Sesolutes valley at Bend is taking out nost of the water from the river of developing everyones aquelled areas.

fra Bend me door 20 miles 5 E. To the bat caves, furth visiting the Skeleton Cave, am old lova humel which we followed for about a will working but gave up finding The end for lack of time It is the typical lava cave with another worf 10 to 40 feet high ad 40 to 75 furt wide, sloping downward with quierelly flat roudy floor och while vot sandy of Hacked by pollow wells with a cuelral ridge od double side hades. The temperature was too Cold pr bats, probably Is about 45° fut is inter a water was found in it. Some 3074 undes faither south ord diretty south of the Pauling Mills. we camp to the arrold Lee caves, a series of 7 cave-ins along an old lava lunul in about half a mile. Most of these are blocked up by The deop but two go down a few hundred

I. P. 27. The temperature of the Clevel Lewer day when the ree is nort shouldent at all pages day in 35° f. I that about the floor. The ier rigistered 32°. The authors of the ears in much warmer.

The dry caves where there is no water or see warmer, probably 50° to 60°.

The Lava Cave registered 45°.

The Lava Cave registered 40°.

huduel fut al contain some ice at the lower parts! In our There is water an The iee of in the other just sworth dry iee, faithy clean of when chapted up waling good clean water. We applied to washing boudt al disher. These two caves are much too cold for bats but the appear Cavelies del feart rerons are wanted del The other day coveries are warm of full of crosses where totsway live orl way find ways back to other waem chawbers voling good with a lot of bots cause out of a to The entrages of the caves in the evering but we seemed only one ed it on Eptimiens furters. A swaller Myolis was equally com but the ofecurers start fell amy bigracles cel bushus at sould not by formal.

July 16. Found two were cave entrances as Cowerns, waking I'm all at the awold Dec Esva also found the ploans of all the caves shown with wings and shells of numerous wolks and butles and crawe flies, when the bats bad been feeding overhead et sught. The worths seem as do warmy birds and the bots. Came buck 8 mules on our road and across 4 inner out to the Call. Anglinay and struck south Toward Klamath Falls. at 22 mules south of Bird are came to the Lava Core the largest deepest and most extrusive of the Caves we have seen. It sums down about I so fut dup and back as a large tunnel over 2 wiels in extent but may go pattur. The turnel is rather high of nasson, generally 75 fut high al about as wide. A little water dies in it at the air is dauge at cold. Well buch pupored the daylight The temperature was 40° 7. We signed bots of but greave forward and the wan in charge said no bots bod hem sem we or around the cave. At also told of the Horse Caves, mai bend, larger There are soiet to be many other covers in the lova heds.

From Bevel to H. Klawatte The Aighway is all completel sel the wast perfect sovel I ever van, all onlief ad swooth with four curves od vo grades or hills exorts the one long east drop from the sumit at 5272 altitude down to H. Klaunth fut. a continuous forest of bodgefrols King from the must side of the Pauling Mbs. 608 wills north of Lapsine south to H. Klaurth with the exception of a few warm slopers grade above It. Klamath where Sugarpines, Cedars, balsams and aspens came in. Methorine prest of Lodgfole grows an a njellow gravel er pumake plain where? suspect cold water runs over the rocks below ed kups The roots too cold for yellow pure for the sandy suitas bears obundance of Kungia hidwlater al Cearothus velulius all the way. I have woffeed it as Canadran zone het with much derbt al histlation.

The Railroad at Remel is building southward bujord Lapury ad will peolobly Com. Through to some point fullus south. My woudisful gellow king frust is bring rapidly reduced to stumps and brushhaps but generally a good stand & seed hus is lift to report The otherwise worthlies land. The quat extent of bodgspools pins forest extending from the Pauling IIIIs. west to the Caseades of south to H. Klawath will probably be lumbered later as it contains many trues of sawfull sige and guilling good box lumber.

July 17, Sunday, The bears did not Come around mutil after dark but tipped overall the garboge caus of made tracks all own camp. Drove ap to Crater Saly cel walked down the trail to the later and drove along the run a quarter mile, as far as prionbanks would allow. Then drove back down to Klanath falls of camped at The automobile Camp 3 miles out on The road to Merrill of alturas, a regular Camp city with cobius, tents, Shower batters, word and water, stay, garage, gasseling, barber ologs el ruenation curles. L'arlf planned Camp with shooling rows of tall Løvubardy poplars.

July 18. Cant back to Klaurally Falls of took my things & Bisbue Hotel od let anna o Laura of Verna start for home via alturas, Suxanville, Kino od Fallon. They will nobe it in two days over gradeonds. Havy forel a wonderful hips ed deve an innever awarmt of work in The 18 days out from Fallon. Could boos kept Them ed the car longer but couldnot pay even 70 milage var for gas of oil breause my relatives Survished the car I did the work for me so The trips was tvo expusive for any of us to Continue very long.

July 19 - Got my baggage readjusted Saw Elher appligate od gottend what Supermation I could on plants al July 20 - Went to the County agreethend Agent, Mr. Huderson, went over his his Last annual reperts for impormation on crops soils, climate al bis stock and also got a lot of circulars and bulblins That will be a help in my lift zom sport. Also got nops sel information places po-The Klawath Courseed Club al so forestry waps from the Forest Pratiation association.

July 21 - Took bus over to Lolieview, 112 miles, having at 2 PM passiving at 7. Came by way of Ollwa, Dairy, Boranger. Whistery Cruk, Beatty, 12hy al Demos Czeel. Was able to walse wany corrections in the life game was and get a good idea of the country of its products. Here is a large reservoir ou Drews Conf. al at the edged the water al closets The wood were 2 flocks of Canada gees, about 100 m lack, al perfully oblivious to persters by. Low a fadesings in weadow was Loborew, several Lewises Woodpidiers along The road of a pais of bally quosils must the read of history Cruk. Noteaver sys on Drus Crust but my driver says they we a few River north of Bly notives say unin Spegal Considerable snow on Congar Butte al The higher parts of the Warren Mills.

Efeut the formon getting zone map data frår Timber maps im Lokeview Forestoffine. ad got unporlant data which was added to a copy of map of Fremont fourt. Climbed up ruto Warver MMs. far worsph to get pluty of abies albients al Papulus humbrieles in cold quilet. Listed Sovoran & Tramelin plants and brads. Returned to Klamath Falls in afterna, 2:30 & 7 PM. od pull my gom was chidered viny well from east to west. Was told at & Lat VIly that There are lots of becivers all along Spraque River, probably Startunis
Loth had of Drives Crule and Eprague
River almost weet of a high water
might affect interensionalisis.